

Title (en)

CLOSED LOOP DRILLING ASSEMBLY WITH ELECTRONICS OUTSIDE A NON-ROTATING SLEEVE

Title (de)

AUTOMATISCHES BOHRSYSTEM MIT ELEKTRONIK AUSSERHALB EINER NICHT-ROTIERENDEN HÜLSE

Title (fr)

ENSEMBLE DE FORAGE EN BOUCLE FERMEE AVEC EQUIPEMENT ELECTRONIQUE PLACE A L'EXTERIEUR D'UNE GAINÉ NON ROTATIVE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO03097989A1] A closed-loop drilling system utilises a bottom hole assembly ("BHA") having a steering assembly (200) having a rotating member and a non-rotating sleeve (220) disposed thereon. The sleeve has a plurality of expandable force application members (250) that engage a borehole wall. A power source (230) and associated electronics for energizing the force application members are located outside of the non-rotating sleeve. A preferred drilling system includes a surface control unit (40) and a BHA processor (42) cooperate to guide the drill bit along a selected well trajectory in response to parameters detected by one or more sensors. In a preferred closed-loop mode of operation, the BHA processor automatically adjusts the force application members in response to data provided by one of more sensors. In a preferred embodiment, the non-rotating sleeve and rotating member include a sensor that determines the orientation of the sleeve relative to the rotating member.

IPC 8 full level

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Cited by

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